# Subject Index Volume 39

Absorption, magnesium, intrinsically labeled vegetables, 571

Acid

amino

glucagonoma, 351

ornithine  $\alpha$ -ketoglutarate administration, 514 plasma, dietary protein, 722

ascorbic, iron absorption from Latin American-type meal, 577

bile, alfalfa saponins-cholesterol interactions (rat), 917

citric, iron absorption from Latin American-type meal, 577

fatty

dietary changes in cheek cells, 975

essential, deficiency, parenteral nutrition, 607 intakes, children, 114

liver, sudden infant death syndrome, 201 pteroylglutamic, zinc, folic acid interactions, 535

selenious, reversing selenium deficiency in total parenteral nutrition, 816

trans-fatty, hydrogenated fat and human milk, 778 Adipose tissue lipoprotein lipase, weight loss, 641, 642 Adiposity, rebound, indicator for predicting obesity, children, 129

Aerobic capacity, malnutrition, children, 830 Age, tissue chromium and exercise training (rat), 402

Alcoholism, folate turnover, 343
Alfalfa, saponins-cholesterol interactions (rat), 917
Amenorrhea, lactational, prolactin, infertility, 227

Amino acid glucagonoma, 351

ornithine  $\alpha$ -ketoglutarate administration, 514 plasma, dietary protein, 722

α-Amylase, salivary, infants, 584

Amylase

inhibitor, starch blockers, 196

starch blockers, 196

Amylopectin, insulin and glucose responses to rice, 388 Amylose, insulin and glucose responses to rice, 388 Anemia

age-related changes in laboratory values, 427

iron deficiency, diagnosis, 937 prevalence and causes, 437

renal failure and vitamin E, 223

Announcements, 177, 347, 501, 853

Anorexia, zinc deprivation, pregnancy (monkey), 265 Anorexia nervosa, weight gain, 236

Anthropometry

birth size versus rate of growth, 95

growth and hematological change in Eskimo children, 460

Apolipoprotein, dietary fat (human), 589

Apolipoprotein B, metabolism, soy protein, hypercholesterolemia (human), 888

Arginase, biochemical changes in saliva of malnourished children, 181 Arginine, dietary protein and plasma amino acids, 722 Arrhythmias, ventricular, obesity, 695

Ascaris lumbricoides, lactose maldigestion in children, 255

Ascorbic acid, iron absorption from Latin Americantype meal, 577

Aspartate amino transferase, phosphate and increased SGOT in total parenteral nutrition, 860

Athletes endurance plasma linid 35

Athletes, endurance, plasma lipid, 35

Beef protein, nutritional quality, 8

alfalfa saponins-cholesterol interactions (rat), 917

dietary starch and cholesterol metabolism in noninsulin-dependent diabetics, 598

Birth weight, zinc deprivation, pregnancy (monkey),

Blood glucose, response, polyphenols, 745

Blood lipid, refined fiber diet, 209

Blood pressure

dietary potassium, 963

response (monkey), 792 Body composition

lactation, maternal diet, 296 methods, 3-methylhistidine, 710

ultrasonic measures, 703

Body fat

distribution, computed tomography, 631

malnutrition, children, 830

Body mass, indices, correlations, 843, 844

Body weight

blood pressure response to sodium (monkey), 792

energy intake, 349

Book Reviews, 171, 346, 500, 644, 847, 984-986

Books Received, 851

Bowel, short, pancreaticobiliary secretions (rat), 762

Brain function, iron status, 105

Breast-feeding, duration, malnutrition, 307

Breath hydrogen, lactose absorption, 752

#### Cadmium

absorption and retention, elderly, 803

Calcium

dietary, protein intake and acid-base status, 281

human milk fat, 185

riboflavin in elderly, 540 solubility, cereals, 190

supplements, osteoporotic postmenopausal women, 857

Abstracts submitted to the 24th Annual Meeting of the AJCN were published on pages 652 through 693 of the April issue of AJCN. Authors and subjects are not indexed here.

# Subject Index Volume 39

Absorption, magnesium, intrinsically labeled vegetables, 571

Acid

amino

glucagonoma, 351

ornithine  $\alpha$ -ketoglutarate administration, 514 plasma, dietary protein, 722

ascorbic, iron absorption from Latin American-type meal, 577

bile, alfalfa saponins-cholesterol interactions (rat), 917

citric, iron absorption from Latin American-type meal, 577

fatty

dietary changes in cheek cells, 975

essential, deficiency, parenteral nutrition, 607 intakes, children, 114

liver, sudden infant death syndrome, 201 pteroylglutamic, zinc, folic acid interactions, 535

selenious, reversing selenium deficiency in total parenteral nutrition, 816

trans-fatty, hydrogenated fat and human milk, 778 Adipose tissue lipoprotein lipase, weight loss, 641, 642 Adiposity, rebound, indicator for predicting obesity, children, 129

Aerobic capacity, malnutrition, children, 830 Age, tissue chromium and exercise training (rat), 402

Alcoholism, folate turnover, 343
Alfalfa, saponins-cholesterol interactions (rat), 917
Amenorrhea, lactational, prolactin, infertility, 227

Amino acid glucagonoma, 351

ornithine  $\alpha$ -ketoglutarate administration, 514 plasma, dietary protein, 722

α-Amylase, salivary, infants, 584

Amylase

inhibitor, starch blockers, 196

starch blockers, 196

Amylopectin, insulin and glucose responses to rice, 388 Amylose, insulin and glucose responses to rice, 388 Anemia

age-related changes in laboratory values, 427

iron deficiency, diagnosis, 937 prevalence and causes, 437

renal failure and vitamin E, 223

Announcements, 177, 347, 501, 853

Anorexia, zinc deprivation, pregnancy (monkey), 265 Anorexia nervosa, weight gain, 236

Anthropometry

birth size versus rate of growth, 95

growth and hematological change in Eskimo children, 460

Apolipoprotein, dietary fat (human), 589

Apolipoprotein B, metabolism, soy protein, hypercholesterolemia (human), 888

Arginase, biochemical changes in saliva of malnourished children, 181 Arginine, dietary protein and plasma amino acids, 722 Arrhythmias, ventricular, obesity, 695

Ascaris lumbricoides, lactose maldigestion in children, 255

Ascorbic acid, iron absorption from Latin Americantype meal, 577

Aspartate amino transferase, phosphate and increased SGOT in total parenteral nutrition, 860

Athletes endurance plasma linid 35

Athletes, endurance, plasma lipid, 35

Beef protein, nutritional quality, 8

alfalfa saponins-cholesterol interactions (rat), 917

dietary starch and cholesterol metabolism in noninsulin-dependent diabetics, 598

Birth weight, zinc deprivation, pregnancy (monkey),

Blood glucose, response, polyphenols, 745

Blood lipid, refined fiber diet, 209

Blood pressure

dietary potassium, 963

response (monkey), 792 Body composition

lactation, maternal diet, 296 methods, 3-methylhistidine, 710

ultrasonic measures, 703

Body fat

distribution, computed tomography, 631

malnutrition, children, 830

Body mass, indices, correlations, 843, 844

Body weight

blood pressure response to sodium (monkey), 792

energy intake, 349

Book Reviews, 171, 346, 500, 644, 847, 984-986

Books Received, 851

Bowel, short, pancreaticobiliary secretions (rat), 762

Brain function, iron status, 105

Breast-feeding, duration, malnutrition, 307

Breath hydrogen, lactose absorption, 752

#### Cadmium

absorption and retention, elderly, 803

Calcium

dietary, protein intake and acid-base status, 281

human milk fat, 185

riboflavin in elderly, 540 solubility, cereals, 190

supplements, osteoporotic postmenopausal women, 857

Abstracts submitted to the 24th Annual Meeting of the AJCN were published on pages 652 through 693 of the April issue of AJCN. Authors and subjects are not indexed here.

human milk fat, 185

solubility, cereals, 190

Cancer lactobacilli and fecal enzymes, 756 lung, risk, Japanese men in Hawaii, 375 Corrections, 347, 855 Carbohydrate Cortisol, hormones in energy deficit (human), 930 dietary, interaction with copper deficiency, 289 sensitivity, insulin-independent diabetes (rat), 612 Carnitine, alcoholic fatty liver, 738 Carotenoids liver vitamin A, children, 903 postprandial blood concentrations, vitamin A status of children, 62 Casein, dietary protein and rhesus monkeys, 1 Cheek cells, phospholipids, dietary changes, 975 Children adiposity rebound, indicator for predicting obesity, 129 birth size versus growth rate, 95 Eskimo, growth and hematological change, 460 fat intakes, 114 lactose maldigestion, 255 liver vitamin A and carotenoids, 903 malnutrition body composition, 830 diarrheal duration, 87 saliva, 181 vitamin D, 625 nutritional status, malnutrition in Nepal, 74 obesity, physical environment, 619 riboflavin supplementation, 787 size, Mexican-American, 344 vitamin A status, postprandial blood concentration, 62 Children (see also Infants) Cholecystokinin, triglycerides, effect, 356 Cholesterol alfalfa saponins, interactions (rat), 917 dietary down-regulation of low-density lipoprotein receplung cancer risk among Japanese men in Hawaii, 375 protein versus casein, rhesus monkeys, 1 fat intakes of children, 114 high- and low-density, nutrient intake in US-USSR samples, 942 lipoprotein changes in runners, diet records, 368 metabolic effects of 2-wk fructose feeding, 525 metabolism, dietary starch, in noninsulin-dependent diabetics, 598 serum response to dietary change, 496, 498 soybean protein, 840 Chromatography, high-pressure liquid, liver vitamin A assay by needle biopsy, 315

Chromium

Copper

retention, elderly, 797

meal, 577

folic acid interactions, 535

tissue, exercise training (rat), 402

uptake and excretion, elderly, 797

Cognition, iron status and brain function, 105

deficiency, carbohydrate interaction, 289

Computed tomography, body fat distribution, 631

Creatinine, excretion, body composition, 710 Crude fiber, availability, 821 Cysteine, removal of protein-bound homocysteine, 730 Data analysis, misuse of multiple comparison procedures, 844, 845 Densitometry, ultrasonic measures of body fat, 703 Dental caries, 492, 493 Diabetes insulin-independent, dietary sucrose (rat), 612 mellitus, dietary fiber, 25 noninsulin-dependent, dietary starch and cholesterol metabolism, 598 plasma pyridoxal phosphate, 841, 842 Diarrhea, infantile, duration, malnutrition, 87 amino acids in glucagonoma, 351 follicular development, 771 hypocaloric, metabolic and structural changes in skeletal muscle, 503 iron absorption, Latin American, 953 lipoprotein changes, runners, 368 maternal, lactation, body composition, 296 plasma lipid in athletes, 35 postmyocardial infarction, 421 supplementation, pregnancy, placenta, 863 Dietary cholesterol down-regulation of low-density lipoprotein receptor, 360 lung cancer risk among Japanese men in Hawaii, 375 Dietary data, interpretation, free-living populations, 152 Dietary fat atherosclerosis, 215 plasma lipids (human), 589 Dietary fiber availability, 821 chemistry, 320 diabetes, 25 human colonic contribution to energy, 338 Dietary zinc, adolescent girls, 446 Digestion, nutritional effects of tooth loss, 478 Echocardiography, postmyocardial infarction diet, 421 chromium, uptake and excretion, 797 lead and cadmium, elderly, 803 riboflavin nutriture, 540 Electrical conductivity, body composition, 157 Elemental diet, hyperalimentation, malnutrition, pancreatic insufficiency, 251 Energy deficit hormones (human), 930 Citric acid, iron absorption from Latin American-type insulin receptors (human), 716 expenditure glucose-induced thermogenesis in obesity, 380 habitual, use of heart rate as measurement, 494, 496 weight gain in anorexia nervosa, 236 human colonic contribution to, 338

tolerance, dietary fiber, 25 Energy—continued intake, body weight, 349 Glutamate, dietary protein and plasma amino acids, Enzymes, fecal bacterial, lactobacilli, 756 Erythrocyte Glutathione peroxidase activity, reversing selenium deinsulin receptors and marginal deficit in energy balficiency in total parenteral nutrition, 816 ance, 716 Glutathione reductase activity coefficient, ribofavin vitamins in dialysis patients, 410 supplementation, children, 787 Erythrocyte aspartate aminotransferase, urinary 4-pyr-Gonadotrophin release, diet and follicular development, 771 idoxic acid excretion, vitamin B6 status, 466 Erythrocyte zinc, adolescent girls, 446 Granulocytes, vitamins in dialysis patients, 410 Escherichia coli, malnutrition and diarrheal duration, Growth changes, in Eskimo children, 460 rate, birth size versus, 95 Essential fatty acid, deficiency, parenteral nutrition, 607 retardation, zinc deprivation, pregnancy (monkey), carnitine in alcoholic fatty liver, 738 salivary a-amylase in infants, 584 pyridoxine absorption, jejunum (rat), 54 work efficiency in marginal malnutrition, 452 Guar gum, hypercholesteremia, 911 lipoprotein changes, runners, 368 plasma lipid in atheletes, 35 Heart disease, dietary fat, 215 training, tissue chromium (rat), 402 Heart rate, measurement of habitual energy, expendiwork efficiency in marginal malnutrition, 452 ture, 494, 496 Height, body mass indices, 843, 844 abdominal, computed tomography, 631 Hematocrit, anemia and iron deficiency, 427 body, malnutrition, children, 830 Hemodialysis dietary anemia and renal failure, 223 atherosclerosis, 215 nutritional status and lymphocyte function, 547 plasma lipids (human), 589 vitamins, 410 hydrogenated Hemoglobin atherosclerosis, 215 anemia and iron deficiency, 427 human milk, 778 growth changes in Eskimo children, 460 intakes, children, 114 iron-deficiency, prevalence and causes of anemia, 437 Fatty acid reference ranges, prevalence and causes of anemia, diet changes in cheek cells, 975 intakes, children, 114 Histidine, dietary protein and plasma amino acids, 722 liver, sudden infant death syndrome, 201 Homocysteine, protein-bound, removal, cysteine, 730 Ferritin Hormones, energy deficit (human), 930 Hydrogen, breath, lactose absorption, 752 biochemical changes in saliva of malnourished children, 181 Hydroxyproline, urinary, calcium supplements in osiron status and brain function, 105 teoporotic postmenopausal women, 857 Ferrous sulphate, iron absorption from Latin Ameri-Hyperalimentation can-type meal, 577 enteral malnutrition, 251 crude, availability, 821 nutrient bioavailability, 243 nasojejunal, enteral formulas, nutrient bioavailabilavailability, 821 ity, 243 chemistry, 320 reversing selenium deficiency in total parenteral nudiabetes, 25 trition, 816 human colonic contribution to energy, 338 Hypercholesterolemia refined, blood lipids and lipoproteins, 209 guar gum, 911 Folate, turnover, alcoholism, 343 soy protein and apolipoprotein B metabolism (hu-Food frequency questionnaire, validity, 136 man), 888 Fructose Hyperkinesis, nitrogen metabolism (boys), 520 carbohydrate interaction with copper deficiency, 289 Hypertension, dietary sucrose, insulin-independent difeeding, metabolic effects, 525 abetes (rat), 612 Gallbladder, contraction, effects of triglycerides, 356 Immune response, oral versus intravenous feeding (rat), Glucagonoma, amino acids, 351 45 Glucose Immune status, outcomes of malnutrition after hospicarbohydrate interaction with copper deficiency, 289 talization, 66 -induced thermogenesis obesity, 380 Infant feeding, manganese status, 872 metabolic effects of 2-wk fructose feeding, 525 Infant formulas, zinc bioavailability, 981, 982 carbohydrate-containing foods, 163, 165 birth size versus growth rate, 95

liver fatty acids and sudden infant death syndrome,

to rice, effect of amylose content, 388

thermic effect, obesity, 380

4

liver vitamin A and carotenoids, 903 salivary α-amylase, 584 vitamin E status, 969 Infants (see also Children) Infertility, prolaction, malnutrition, lactation, 227 Insulin dietary sucrose, diabetes (rat), 612 metabolic effects of 2-wk fructose feeding, 525 ornithine  $\alpha$ -ketoglutarate administration, 514 receptors, energy deficit (human), 716 carbohydrate-containing foods, 163, 165 to rice, effect of amylose content, 388 Intestine absorption, pyridoxine, effect of ethanol (rat), 54 bacterial enzyme activity, lactobacilli, 756 large, contribution to energy supplies, 338 absorption Latin American diets, 953 Latin American-type meal, 577 bioavailability, proteins, 393 deficiency, 471 age-related changes in laboratory values, 427 anemia, diagnosis, 937 folic acid interactions, 535 human milk fat, 185 nutrition, brain function, 105 Lactation maternal diet, body composition, 296 prolaction, infertility, 227 Lactobacillus acidophilus, fecal enzymes, 756 Lactoperoxidase antibacterial system, thiocyanate and thyroid function, 416 Lactose malabsorption breath hydrogen test, 752 adult, 100 tolerance breath hydrogen test, 752 children, 255 absorption and retention, elderly, 803 Lectin, starch blockers, 196 Leucine oxidation, oral versus intravenous feeding (rat), Levamisole, lactose maldigestion in Ascaris-infected children, 255 Lipid blood, refined fiber diet, 209 diet changes in cheek cells, 975 plasma athletes, 35 dietary fiber, 25 serum, lipoprotein changes in runners, diet records, 368 Lipoprotein changes, runners, diet, 368 dietary protein versus casein, rhesus monkeys, 1 dietary starch and cholesterol metabolism in noninsulin-dependent diabetics, 598 high-density, dietary fat (human), 589 low-density

receptor, down-regulation by dietary cholesterol,

soy protein and apolipoprotein B metabolism, hypercholesterolemia (human), 888 refined fiber diet, 209 Liquid protein diet, cardiac dysfunction, 695 Liver biopsy, vitamin A and relative dose response, 898 fatty, alcoholic, carnitine 738 fatty acids, sudden infant death syndrome, 201 Lung, neoplasms, risk, Japanese men in Hawaii, 375 Lung cancer, risk, Japanese men in Hawaii, 375 Lymphocyte, transformation, hemodialysis patients, 547 Lysine, dietary protein and plasma amino acids, 722 Magnesium absorption, intrinsically labeled vegetables, 571 human milk fat, 185 solubility, cereals, 190 Malnutrition children body composition, 830 diarrheal duration, 87 Nepal, 74 saliva, 181 vitamin D, 625 erythrocyte zinc in adolescent girls, 446 outcomes after hospitalization, 66 pancreatic insufficiency, elemental diet, 251 prolactin, infertility, 227 protein-calorie, duration of breast-feeding, 307 work efficiency, 452 Manganese, status, infant feeding, 872 Marrow transplantation, essential fatty acid deficiency in parenteral nutrition, 607 Menopause, calcium supplements in osteoporosis, 857 Menstrual cycles, diet and follicular development, 771 Methionine, supplementation, soy protein quality, 16 3-Methylhistidine, body composition, 710 Metropolitan weight tables, "new", 490, 491 Milk composition, maternal diet, body composition, lactation, 296 fat, human, trace elements, 185 human composition, premature birth and milk volume, 168, 169 hydrogenated fat, 778 infant feeding and manganese status, 872 versus cows', vitamin E status, infants, 969 intolerance adult, 100 Ascaris-infected children, 255 thiocyanate and thyroid function, 416 volume, maternal diet, body composition, lactation, 296 Minerals, essential, cereals, 190 Mortality, nutritional effects of tooth loss, 478 Muscle, skeletal, histochemistry, metabolism during hypocaloric dieting, 503 Myocardial infarction, implication for postmyocardial infarction diet, 421

Needle biopsy, liver, vitamin A status, 315

Nitrogen

balance

992 Nitrogen—continued metabolic study, 8 soy protein quality, 16 hormones in energy deficit (human), 930 metabolism, hyperkinetic boys, 520 Nutrient intake, US-USSR samples, 942 intercorrelations, interpretation of dietary data from free-living populations, 152 international network of food data systems, 144 iron, brain function, 105 oral versus intravenous (rat), 45 outcomes of malnutrition after hospitalization, 66 parenteral essential fatty acid deficiency, 607 phosphate and increased SGOT, 860 selenium, balance (human), 809 total parenteral selenium deficiency, 816 weight gain in anorexia nervosa, 236 Nutrition survey, validity of food frequency questionnaire, 136 **Nutritional status** children, malnutrition in Nepal, 74 hemodialysis patients, 547 malnutrition and diarrheal duration, children, 87 tooth loss, effects, 478 Obesity adiposity rebound in children, 129 cardiac dysfunction, 695 dietary sucrose, insulin-independent diabetes (rat), 612 glucose-induced thermogenesis, 380 physical environment, 619 Ornithine \alpha-ketoglutarates, administration, 514 Osteoporosis calcium balance, acid-base status, 281 calcium supplements, postmenopausal women, 857 Oxygen, consumption, body composition, 710 Pancreas, insufficiency, enteral hyperalimentation malnutrition, 251 Pancreaticobiliary diversion, short bowel (rat), 762 Parenteral nutrition

essential fatty acid deficiency, 607 phosphate and increased SGOT, 860 total selenium deficiency, 816 weight gain in anorexia nervosa, 236 increased SGOT in total parenteral nutrition, 860 plasma pyridoxal, diabetes, 841, 842 Phospholipids, cheek cell, dietary changes, 975 Physical environment, childhood obesity, 619 Phytate, minerals in cereals, 190 Placenta, dietary supplementation, 863 Plasma, vitamins in dialysis patients, 410 Plasma lipids athletes, 35 dietary fiber, 25 Polyphenols, blood glucose response, 745 Population study

lactose malabsorption in Italy, 100

nutrient intake in US-USSR samples, 942

Postprandial blood, concentration, vitamin A status of children, 62 Potassium, dietary, blood pressure, 963 Pregnancy dietary supplementation and placenta, 863 zinc deprivation (monkey), 265 zinc deprivation (monkey), 879 Premature birth, milk composition (human), 168, 169 President's address, 638 Prolactin, infertility, lactation, 227 Prostacyclin, dietary fats and atherosclerosis, 215 Prostaglandins, hydrogenated fat and human milk, 778 Protein beef, nutritional quality, 8 biochemical changes in saliva of malnourished children, 181 intake, acid-base status, 281 iron bioavailability, 393 metabolism, hyperkinetic boys, 520 retinol-binding, postprandial blood concentrations, vitamin A status of children, 62 soy, isolated nutritional quality, 8 protein quality, 16 rhesus monkeys, 1 soybean, serum cholesterol, 840 Protein-calorie malnutrition, duration of breast-feeding, 307 Protein-energy malnutrition, outcomes after hospitalization, 66 Protoporphyrin, anemia and iron deficiency, 427 Pteroylglutamic acid, zinc, folic acid interactions, 535 Pyridoxal phosphate, plasma, diabetes, 841, 842 Pyridoxal 5'-phosphate, vitamin B6 status, 466 4-Pyridoxic acid, urinary, excretion, vitamin B6 status, Pyridoxine, absorption, ethanol exposure and ingestion, jejunum (rat), 54 Rash, glucagonoma, amino acids, 351 Renal failure, anemia, 223 Retinol liver vitamin A assay by needle biopsy, 315 children, 903 relative dose response, 898 postprandial blood concentrations, vitamin A status of children, 62 Retinyl ester, liver vitamin A assay by needle biopsy, 315 Riboflavin nutriture in elderly, 540 requirements, methods for estimating, 159, 161 supplementation, children, 787 urinary, children, 787 Saliva

α-amylase, infants, 584 malnutrition, children, 181 Saponins, alfalfa, cholesterol interactions (rat), 917 Selenious acid, reversing selenium deficiency in total parenteral nutrition, 816 Selenium balance (human), 809 deficiency, total parenteral nutrition, 816 intake (human), 809

Serum cholesterol, response to dietary change, 496, 498 Serum lipids, lipoprotein changes in runners, diet records, 368

Shigella, malnutrition and diarrheal duration, 87 Skeletal muscle, metabolism during hypocaloric dieting, 503

Sodium, dietary, blood pressure response (monkey), 792

Sodium bicarbonate, ingestion, calcium balance, acidbase status, 281

Soy protein

apolipoprotein B metabolism, hypercholesterolemia (human), 888

iron absorption from Latin American-type meal, 577 isolated

nutritional quality, 8 protein quality, 16 rhesus monkeys, 1

Spectrophotometry, atomic absorption, tissue chromium and exercise training (rat), 402

Starch

carbohydrate interaction with copper deficiency, 289 insulin and glucose responses to rice, 388 Starch blockers, trypsin inhibitors and lectins, 196 Sucrose, insulin-independent diabetes (rat), 612 Sudden infant death syndrome, liver fatty acids, 201 Sugar, dental caries, 492, 493

Tannins, polyphenols and blood glucose response, 745 Thermogenesis, glucose-induced, obesity, 380 Thiocyanate, thyroid function, 416

Thyroid

function, thiocyanate, 416 hormones in energy deficit (human), 930

TOBEC method, accuracy, 157 Footh loss, nutritional effects, 478

Triglycerides, long- and medium-chain, plasma cholecystokinin and gallbladder contraction, 356 Trypsin, inhibitor, starch blockers, 196

Ultrasonics, body fat measures, 703

Ultrasonography, effect of long- and medium-chain triglycerides on cholecystokinin and gallbladder contraction, 356

Undernutrition

children, body composition, 830

nasojejunal hyperalimentation, 243

Vegetables, intrinsically labeled, magnesium absorption, 571

Vitamin supplements, riboflavin in elderly, 540 water-soluble, dialysis patients, 410

Vitamin A children, status, 62

liver

assay by needle biopsy, 315 children, 903

relative dose response, 898
postprandial blood concentration, children, 62

Vitamin B2, riboflavin in elderly, 540

Vitamin B6

cysteine use in removal of protein-bound homocysteine, 730

pyridoxine absorption, effect of ethanol, jejunum (rat), 54

urinary 4-pyridoxic acid excretion, 466 Vitamin D, malnourished children, 625 Vitamin E

anemia and renal failure, 223 status, infants, 969

Weight

birth size versus growth rate, 95 body mass indices, 843, 844 gain, anorexia nervosa, 236 loss, adipose tissue lipoprotein lipase, 641, 642 "new" Metropolitan tables, 490, 491

Zinc

bioavailability, infant formulas, 981, 982 deficiency, pregnancy (monkey), 265, 879 depletion, experimental, zinc status, 556 dietary

adolescent girls, 446
pregnancy (monkey), 265
erythrocyte, adolescent girls, 446
excretion, experimental zinc depletion, 556
folic acid interactions, 535
human milk fat, 185
solubility, cereals, 190
tissue, levels, experimental zinc depletion, 556

### **Author Index**

### Volume 39

Abraira C, 351 Acosta A, 953 Agarwal DK, 181 Agarwal KN, 181 Agarwal PK, 181 Ajayi OA, 787 Aker SN, 607 Albers JJ, 360 Alexander M, 540 Allen C, 589 Amar M, 014 Amédée-Manesme O, 315, 898 Andersén E, 598 Anderson AE, 848 Anderson D, 898 Anderson DM, 169 Anderson FH, 860 Anderson GH, 168 Applebaum-Bowden D, 360 Ardila J, 830 Armstrong BK, 975 Aro A, 911

Baer MT, 556 Bagatell CJ, 421 Baker H, 410 Balbach L, 981 Baly DL, 265, 879 Baptista RJ, 816 Barac-Nieto M, 452, 830 Barbera C, 100 Barcelos ! B, 307 Barnhart RL, 589 Barrett-Connor E, 963 Basdevant A, 642 Bates JF, 478 Becker N, 498 Becker S, 87 Behall KM, 209 Beilin LJ, 975 Belko AZ, 161 Bellisle F, 129 Benevenga NJ, 730 Benitez J, 62 Berenson GS, 114, 792 Bergmark A, 416 Beynen AC, 840 Biachi RG, 953 Bieri JG, 985 Birkhahn RH, 45 Bistrian BR, 816 Björck L, 416 Black RE, 87 Blackburn GL, 816

Austin S, 227

Bleier J, 243 Bolonchuk WW, 35 Boner A, 100 Brant LJ, 460 Bright-See E, 821 Brown KH, 87 Bruce Å, 416 Brunzell JD, 641 Buchanan L, 816 Bunker VW, 797, 803 Burgio GR, 100 Buskirk ER, 710 Butte NF, 296 Buzby GP, 236

Cajozzo C, 100 Calloway DH, 716, 011 Campbell IT, 494 Canfield WK, 535 Cann CE, 631 Carrera E, 255, 346 Cassidy MM, 917 Champagne CD, 816 Chauhan P, 863 Christensen CC, 496 Claesson O, 416 Clancy SL, 201 Clayton BE, 797, 803 Cook JD, 471 Cornbluth-Szarfarc SC, 953 Coulston AM, 163 Craig WJ, 981 Craig-Schmidt MC, 778 Crapo PA, 525 Cresanta JL, 114 Croft KD, 975 Crompton DWT, 255 Crosby LO, 236 Cuerrier J-P, 402 Culley P, 446 Cullinane E, 368 Cynober L, 514

Dahlberg P-A, 416
Dalferes ER Jr, 792
Dallman PR, 427, 437, 937
Dawes C, 584
Dawson SL, 105
DeBari VA, 410
DeBartolo M, 351
Deheeger M, 129
Delves HT, 797, 803
de Maldonado Z, 830
Dempsey DT, 236
de Orozco B, 830
Desai ID, 969

Dietz WH Jr, 619 Dillman E, 953 Donatucci DA, 196 Dore A, 514 Downs TD, 843 Drake JR, 223 Dunn P, 344 Dworken HJ, 500

Edwards RHT, 625 Ellwood KC, 612 Emanuel G, 540 Eshleman R, 368

Faircloth SA, 778 Falla G, 62 Fanelli MT, 703 Farris RP, 114 Felber J-P, 380 Feldman EB, 173 Fennis JTCM, 1 Ferretti RJ, 289, 845 Feurer ID, 236 Fields M, 289, 845 Finch CA, 471 Fisher M, 152 Fitch CD, 223 Flatz G, 100, 752 Flatz SD, 100 Flynn MA, 171 Fogerty AC, 201 Forbes GB, 349 Ford GL, 201 Fosil M. 953 Foster TA, 792 Frank GC, 114 Frank O. 410 Fransson G-B, 185 Fried SK, 644 Furr HC, 315

Garbaczewski L, 771 Gardiner PF, 402 Garn SM, 490 Garrel DR, 716, 930 Garza C, 8, 296 Geissler CA, 478 Gershwin ME, 265, 879 Giboudeau J, 514 Giovannetti PM, 888 Glaeser BS, 722 Glueck CJ, 589 Goddard MS, 388 Golay A, 380 Goldberg HI, 631 Goldin BR, 756 Golin T, 540

Blanc W, 863

Golub MS, 265, 879 Gonçalves AL, 969 Gonzalez LF, 830 Gorbach SL, 756 Gordon T, 152 Gortmaker SL, 619 Grauer WO, 631 Gray DK, 547 Grebe G, 953 Grivetti LE, 136 Guilloud-Bataille M, 129 Gunning DB, 903 Guy-Grand B, 642

Hackett AF, 492 Haffner SM, 360 Haley N, 771 Hallberg L, 577 Hallenbeck J, 243 Halsted CH, 343 Hambraeus L. 416 Hamfelt A, 841 Hansen CT, 612 Harrison BR, 223 Hartsook E, 360 Haunz EA, 25 Hawthorne VM, 490 Hazzard WR, 360 Heilbrun LK, 375 Hellström K, 598 Hellström P, 598 Hendrickx AG, 265, 879 Herbert PN, 368 Herbert V, 171 Herbst CA, 762 Hersh T. 243 Hertrampf E, 953 Heymsfield SB, 243, 421 Hill P, 771 Hogg E, 589 Hollenbeck CB, 163, 842 Holmes RP, 215 Holodinsky C, 584 Hopman WPM, 356 Horowitz M, 857 Horwitt MK, 159 **Huff MW, 888** Hurley LS, 265, 879

Illingworth DR, 498 Inman LF, 25

Jackson RL, 589
James DA, 787
James SP, 984
Jansen JBMJ, 356
Jeejeebhoy KN, 503
Jenkins AL, 165, 745
Jenkins DJA, 165, 745
Jéquier E, 380
Johnson C, 427, 437
Johnson LK, 25
Jones DA, 625
Jorge SM, 969
Josse RG, 165
Judge JM, 612

Kane AP, 393 Karlander S-G, 598 Kashyap ML, 589 Katan MB, 840 Katzen R, 351 Keen CL, 982 Kenney MA, 446 Keys A, 496 Khaw K-T, 963 King JC, 556 Klevay LM, 35 Kolonel L, 844 Kolterman OG, 525 Kopple JD, 547 Korhonen T, 911 Krall JM, 95 Krantzler NJ, 136 Kremenchuzky S, 953 Kristal A, 863 Kuczmarski RJ, 703 Kühnau W, 752 Kummerow FA, 215

Lamers CBHW, 356 Lawrence AM, 351 Lawson MS, 797, 803 Layrisse M, 953 Leavitt JN Jr, 223 Lee J, 844 Lee KH, 209 Leiter LA, 503 Leklem JE, 842 LePage SL, 917 Leslie J, 74 Levander OA, 809 Lew EA, 491 Liener IE, 196 Lifshitz F, 346 Lightfoot FG, 917 Linhares ER, 625 Linn BS, 66 Livant EJ, 778 Lönnerdal B, 19, 185 Luk KH, 360 Lukaski HC, 35, 710 Lunn PG, 227 Lutz J, 281 Lyon DB, 190

Mahalko JR, 25, 35, 535 Maher TJ, 722 Marcus R, 388 Margetts BM, 975 Marliss EB, 503 Martin DM, 251 Martines JC, 307 Martinez FE, 969 Martinez-Torres C, 953 Martorell R, 74, 344 Mazess RB, 157 McKeown-Eyssen GE, 821 McManus C, 243 McMurchie E, 975 McNeil NI, 338 Meiselman HL, 136

Mejía LA, 62 Mendeloff AI, 172, 847 Mendez J, 710 Meredith MP, 844 Michaelis OE IV, 612 Mickle DAG, 503 Middleton HM III, 54 Miller DD, 393 Miller DG, 816 Mills LR, 54 Milne DB, 25, 35, 105, 535 Minturn D, 547 Moak S, 446 Moock PR, 74 Moron C, 953 Morris VC, 809 Moser PB, 209 Moss AA, 631 Mullen BJ, 136 Mullen JL, 236 Murray E, 8

Naeye R, 863 Naftali D, 752 Nanji AA, 860 Nasrallah SM, 251 Navarro C, 863 Need AG, 857 Needle MA, 410 Nesheim MC, 255 Nichols BL, 296 Nomura AMY, 375 Nordin BEC, 857 Noriega JF, 62

O'Donnell JA, 175 Olson JA, 315, 898, 903

Patané R, 100 Patois E, 129 Penland JG, 105 Pertschuk MJ, 236 Petersen KM, 460 Petro MS, 917 Philcox JC, 857 Picciano MF, 872 Pineda O, 62 Pinto JT, 540 Pittard WB III, 169 Pizarro F, 953 Pomerance HH, 95 Prentice AM, 227 Presta E, 157 Pugeat MM, 930 Puig M, 16

Queiroz E, 16

Radhakrishnamurthy B, 792 Ramirez R, 452 Rand WM, 8, 16, 144 Read MS, 984 Reaven GM, 163 Rebuffe-Scrive M, 642 Reina JC, 452, 830 Reiser S, 289, 845 Renk CM, 45 Reynafarje C, 953 Rhew TH, 738 Rifkind BM, 152 Ritchey SJ, 446 Rivlin RS, 540 Roe DA, 161, 174 Rolland-Cachera M-F, 129 Rosenberg I, 343 Rosenbusch G, 356 Rossander L, 577 Round JM, 625 Royce SM, 215 Ruark RA, 738 Rugg-Gunn AJ, 492 Rush D, 863 Russell DMcR, 503 Russell RM, 343

Sachan DS, 738 Sammaritano AM, 520 Sandoval W, 446 Sandstead HH, 25, 35, 105, 535, 638 Sandstrom B, 982 Schoene NW, 612 Schouten JA, 1 Schutz HG, 136 Schutz Y, 380 Schwartz R, 571 Schwartz RS, 641 Scrimshaw NS, 8, 16 Segal KR, 157 Selvendran RR, 320 Sempé M, 129 Sevenhuysen GP, 584 Shapcott D, 402 Shekelle RB, 843 Sima AAF, 503

Sims EAH, 849 Singh M, 54 Sinsakul V, 223 Smith EO, 296 Smith JC Jr, 289, 845 Smith-Andrews J, 243 Smolin LA, 730 Soderhjelm L, 841 Spencer H, 571 Spurr GB, 452, 830 Srinivasan SR, 792 Stastny D, 872 Stein TP, 520 Steinke FH, 8 Stekel A, 953 Stemmermann GN, 375 Story JA, 917 Strong CJ, 547 Stuff JE, 296

Takagi T, 215
Tanner WK, 503
Tarcza JC, 196
Taylor RH, 165
Terpstra AHM, 1
Thompson LU, 745
Thompson PD, 368
Tiltnont G, 607
Tilton RA, 903
Todd KS, 716, 930
Tucker DM, 105
Ulshen MH, 762

Uusitupa M, 911 Vallerand AL, 402 Vallerand RJ, 402 van der Veen EA, 1 Vandongen R, 975 Van Itallie TB, 157, 644, 695

Van Raaij JMA, 840

Vaubourdolle M, 514 Vaughan JP, 307 Victora CG, 307 Villavicencio D, 953 Vogel RS, 872 Voutilainen E, 911 Vyhmeister N, 981

Walker ARP, 493 Walker PM, 503 Warner RC, 25 Wayler A, 8 Webber LS, 114 Weete JD, 778 Welsh JJ, 571 West CE, 1, 840 West LG, 917 Whitehead RG, 227 Whitmire L, 243 Whitwell J, 503 Wickwire MA, 778 Willcox ME, 201 Wolever TMS, 165, 745 Wolf RH, 792 Wolfe BM, 888 Wolfson M, 547 Wong GS, 165 Wurtman RJ, 722 Wynder EL, 771

Yamanaka WK, 607 Yang M-U, 659 Yip R, 427, 437 Yoon JH, 745 Young EA, 986 Young G, 388 Young VR, 8, 16, 144

Zuniga YH, 953

